Department of Physics

BIT Mesra, Ranchi

Research Papers Published by Faculty members

**January 2025**

* Divya Rai, Anuradha Mahanty, Ranbir Kumar, Deep Shikha, Smit Anand, and **Sanjay Kumar Sinha**, Effects of Sintering Temperature on the Microstructure, Microhardness, and Corrosion Resistance of Hydroxyapatite, **JMEPEG,** **January 2025,**  <https://doi.org/10.1007/s11665-025-10819-0>
* Kirti Sharma, **Pawan K. Tiwari** and **S. K. Sinha**, Estimation of Hematocrit Volume Using Blood Glucose concentration through Extreme Gradient Boosting Regrassor Machine Learning Model,JCIM , Journal of Chemical Information and Modeling, **2025,** <https://doi.org/10.1021/acs.jcim.4c01423>
* **Pawan K. Tiwari et al**, Investigation on the temporal evolution of the Druyvesteyn distribution function between sheath and presheath region in material processing plasmas**, 2025, Phys. Scr. 100 035613**
* Rakesh K. Prasad, **Dilip K. Singh**, Melamine‑Based Graphitic C3N4/p‑Silicon Heterostructure Photodetector: Effect of g‑C3N4 Growth Time on Performance, **Journal of Electronic Materials**, **January 2025,** https://doi.org/10.1007/s11664-025-11782-1
* Riya Malik, Ankur Rana, Megha Rana, **Dilip K. Singh**, R. Srivastava and C. K. Suman , Synergistic effects of liquid phase exfoliated molybdenum based 2D nanosheets and MWCNTs for high performance supercapacitors, **Sustainable Energy Fuels, 2025, 9, 750–764,** https://doi.org/10.1039/d4se00964a